## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

n re Application of	
Chun Pyo HONG	
Serial No. Unassigned	) Examiner: Unassigned
Filed: Herewith	) Group Art Unit: Unassigned
	) )
For: RHEOFORMING APPARATUS	<b>)</b>
DDELIMINA	RY AMENDMENT
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Mail Stop: Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	
Dear Sir:	
Please enter the following amendments before calculation of the filing fee and	
examination of the merits.	
N THE CLAIMS:	
Please Amend the claims as follows:	
1. (Original) A rheoforming apparatu	· - ·
a first sleeve, an end of which is formed with an outlet vent for releasing slurries;  a second sleeve for receiving molten metals, an end of the second sleeve being	
hinge-connected to the other end of the first sleeve at a predetermined angle;	
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- a stirring unit for applying an electromagnetic field to an area of the second sleeve in which the molten metals are present;
- a plunger, which is inserted into the other end of the second sleeve to block the other end of the second sleeve for receiving the molten metals and to pressurize the slurries; and
- a forming unit, which is connected to the outlet vent of the first sleeve to form products with a predetermined shape using the slurries.
- 2. (Original) The rheoforming apparatus according to claim 1, wherein the forming unit is an extrusion unit provided with a transfer roller and a cooler.
- B. (Original) The rheoforming apparatus according to claim 1, wherein the forming unit is a press-forming unit provided with a press die.

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- 4. (Original) The rheoforming apparatus according to claim 1, further comprising a first emperature control element, which is installed around the first sleeve to adjust the emperature of the slurries pressurized toward the outlet vent.
- 5. (Currently Amended) The rheoforming apparatus according to any one of claims

  1 to 4 claim 1, wherein the stirring unit applies the electromagnetic field to the second sleeve prior to loading the molten metals into the second sleeve.
- 6. (Currently Amended) The rheoforming apparatus according to any one of claims 1 to 4 claim 1, wherein the stirring unit applies the electromagnetic field to the second sleeve simultaneously with loading the molten metals into the second sleeve.
- 7. (Currently Amended) The rheoforming apparatus according to any one of claims
  1 to 4 claim 1, wherein the stirring unit applies the electromagnetic field to the second sleeve in the middle of loading the molten metals into the second sleeve.

- 8. (Currently Amended) The rheoforming apparatus according to any one of claims 1 to 4 claim 1, wherein the stirring unit applies the electromagnetic field to the second sleeve until the molten metals in the second sleeve have a solid fraction of 0.001-0.7.
- (Original) The rheoforming apparatus according to claim 8, wherein the stirring unit applies the electromagnetic field to the second sleeve until the molten metals in the second sleeve have a solid fraction of 0.001-0.4.
- 10. (Original) The rheoforming apparatus according to claim 9, wherein the stirring unit applies the electromagnetic field to the second sleeve until the molten metals in the second sleeve have a solid fraction of 0.001-0.1.
- 11. (Currently Amended) The rheoforming apparatus according to any one of claims

  1 to 4 claim 1, wherein the molten metals in the second sleeve is cooled until the molten metals have a solid fraction of 0.1-0.7.
- (Original) The rheoforming apparatus according to claim 11, further comprising a second temperature control element, which is installed around the second sleeve to cool the molten metals in the second sleeve.
- 13. (Original) The rheoforming apparatus according to claim 12, wherein the second temperature control element comprises at least one of a cooler and a heater, which are installed around the second sleeve.
- 14. (Original) The rheoforming apparatus according to claim 12, wherein the second temperature control element cools the molten metals in the second sleeve at a rate of 0.2-5.0 /sec.
- (Original) The rheoforming apparatus according to claim 14, wherein the second imperature control element cools the molten metals in the second sleeve at a rate of 0.2-2.0 /sec.

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